Epitope sequence	IDELKECFLNQTDETLSNVE	ELLQEFIDDNATTNAIDELK	TTNAIDELKECFLNQ	ELLQEFIDDNATTNAIDELK	ELLQEFIDDNATTNAIDELK	SQHCYAGSGCPLLENVISKTI	ELLQEFIDDNATTNAIDELK		SQHCYAGSGCPLLENVISKTI			
FACS	n.d.	yes	. 01	yes	yes	yes	yes	yes	01	yes	yes	00
IHC	yes**	%**	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Western Blot	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Epitope	Pro2	Pro3	Pro2-3	Pro3	Pro3	Pro5	Pro3	n.d.	Pro5	n.d.	n.d.	n.d.
Species	rabbit	rabbit	rabbit	rabbit	rabbit	rabbit	rabbit	monse	mouse	mouse	mouse	monse
Designation	29C11	31A5	6A1	14A12	6B12	203	16D8	31-1H7	197-1H11	32-1611	304-1A5	98-1F4

Fig. 14

pc.h.mam.6a1.cell-57.579.1.t7

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GGCCGATTCACCATCTCCAAAACCTCGTCGACCACGGTGGATCTGAAAATGACCAGTCTGACA
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CTGGTCACCGTCTCCTCAGGGCAACCTAA

pc.h.mam.16d8.cell-22.394.1.t7

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GCTGGAATGGATCGGAACCATTAGTACTATTGGTAGCCCATTTTACGCGAGCTGGGCGAGAGG
CCGATTCACCATCTCCAAAACCTCGACCACGGTGGATCTGAAAATCACCAATCCGACAACCGA
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pc.h.mam.16d8.cell-21.393.2.t7

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pcr.g.mam.29c11.c211.11779.780com

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Fig. 2

Mammaglobin sequence

Peptide with Enterokinase and Thrombin cleavage sites

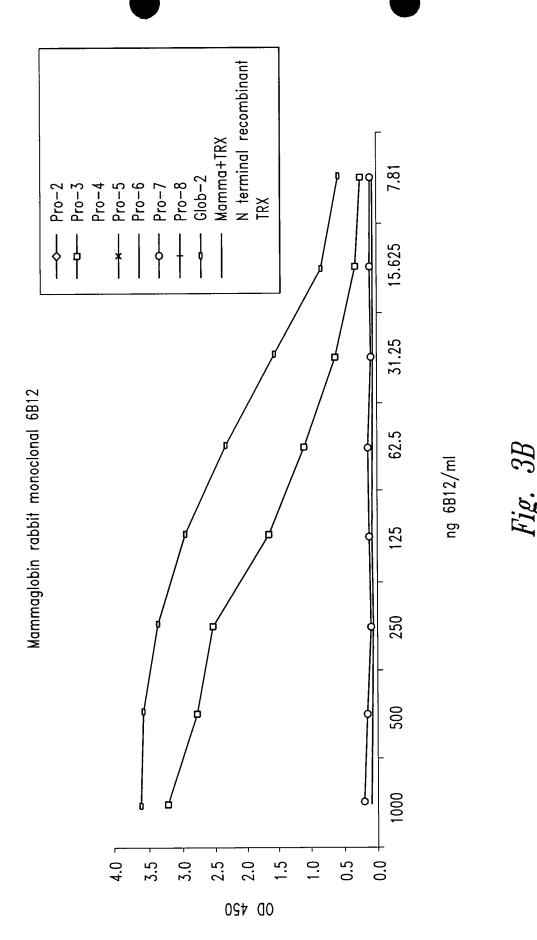
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N-terminal recombinant

HCYAGSGCPLLENVISK

	Reactivit	Reactivity of Mouse Monoc	_	antiboc	lies to Ma	ımmaglobi	n with pe	ptides and	onal antibodies to Mammaglobin with peptides and recombinants		
Antibody	Pro2	Pro-3	Pro-4	Pro-5	Pro-6	Pro-7	Pro-8	Glob-2	amma+Tlinal	recon	TRX
31-1H7	0.065	0.059	0.059	0.061	90.0	990.0	0.07	0.063	2.788	0.074	0.116
32-1611	0.056	0.055	0.054	0.054	0.055	0.057	0.055	0.055	2.75	0.057	0.07
197-1H11	0.055	0.054	0.053	1.139	0.054	0.022	0.055	0.055	2.502	2.596	0.064
304-145	0.054	0.054	0.053	0.053	0.054	0.053	0.053	0.054	2.7	0.056	0.064
98-1F4	0.068	0.055	0.053	0.055	0.059	0.064	0.11	0.112	2.819	0.118	0.121
967	0.055	0.057	0.056	0.056	0.055	0.62	0.056	0.637	1.566	0.069	0.159
Blank	0.056	0.055	0.053	0.055	0.052	0.053	0.053	0.053	0.056	0.052	90.0

Fig. 3A



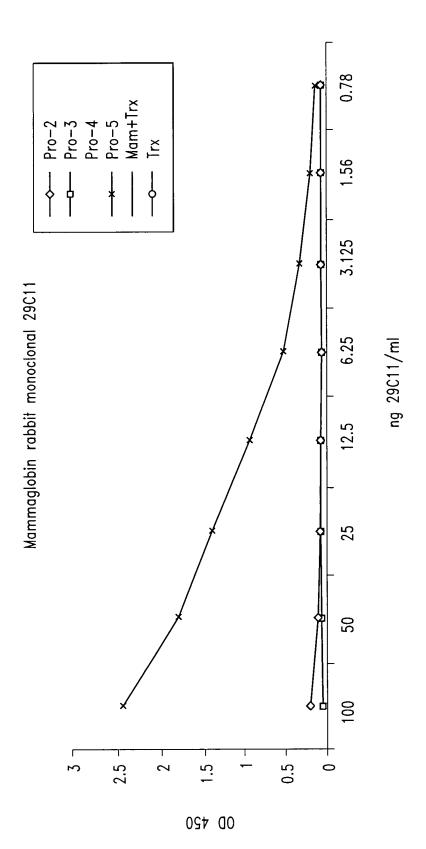


Fig. 3C

Mammaglobin rabbit monoclonal 2D3

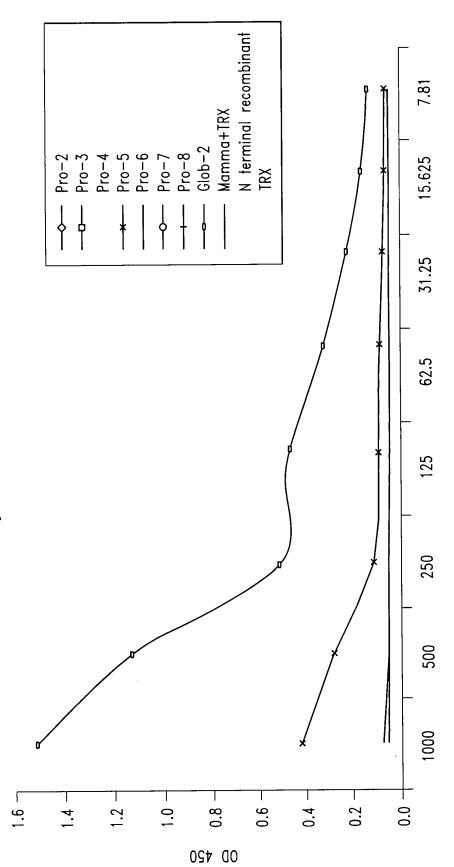
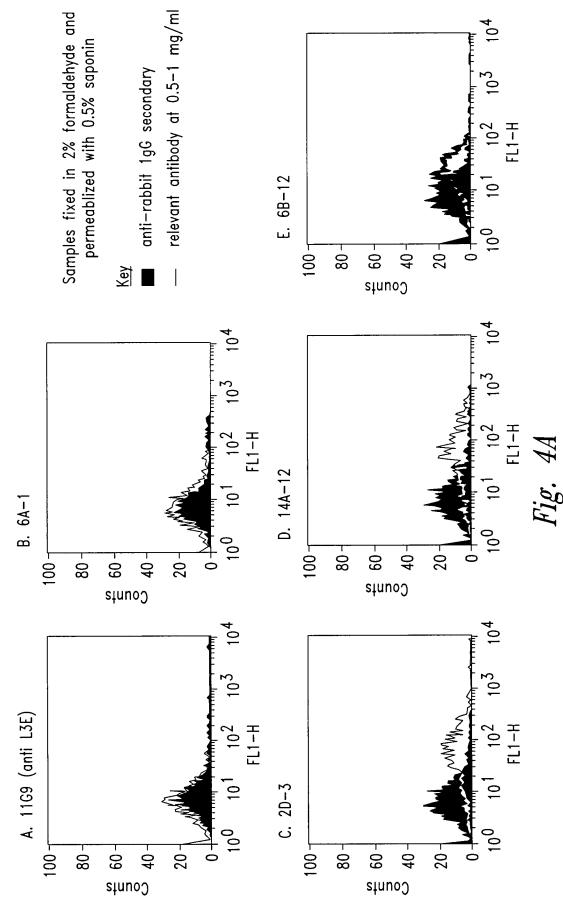


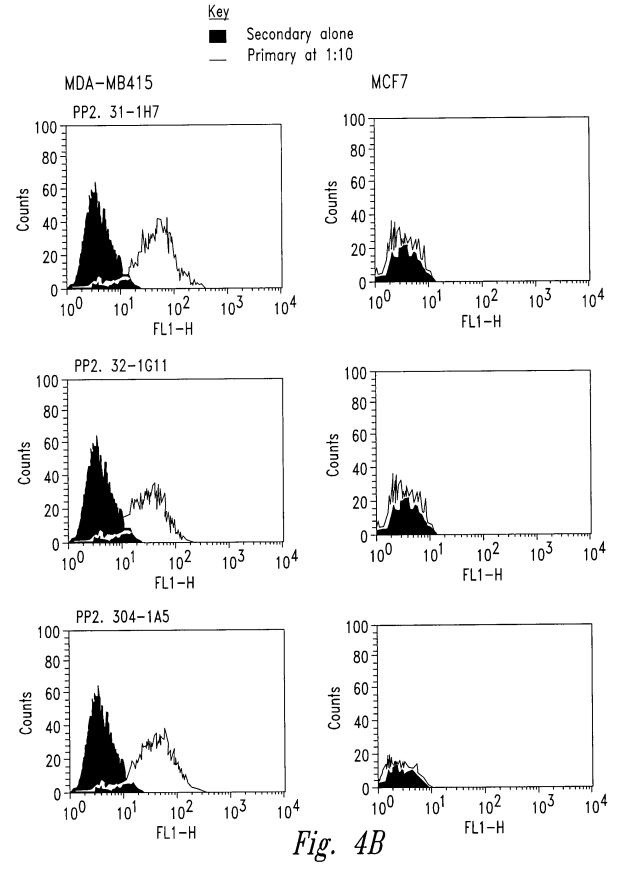
Fig. 3D

ng monoclonal 2D3/ml

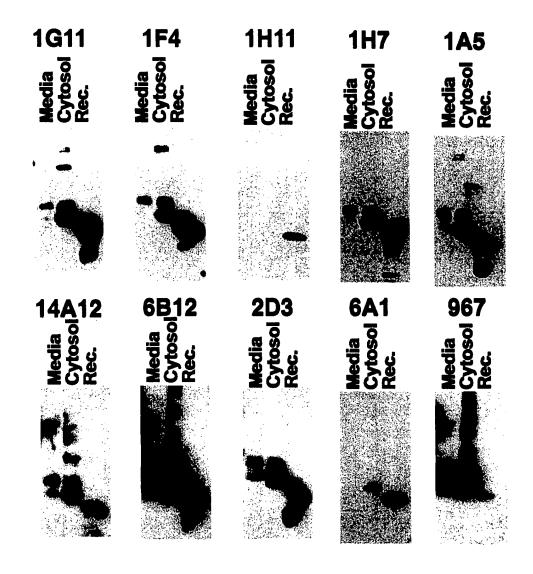
Staining of permeabilized human breast tumor cell line MDA—MB415 with rabbit anti-mammaglobin monoclonal antibodies



Staining of permeabilized human breast tumor cell lines with murine anti-mammaglobin monoclonal antibodies



Western blot analysis of Mammaglobin from MB415 cells



Mouse monocional: 1G11, 1F4, 1H11,1H7, 1A5 Rabbit monocional: 14A12, 6B12, 2D3, 6A1

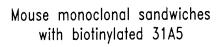
Rabbit polycional: 967

Rec.: bacterially expressed recombinant mammaglobin

IHC analysis of mammaglobin expression in normal tissue.

Normal Tissue	Mam-29C11/31A5
Breast	3-
Adrenal	0
Cervix	0
Colon	0
Duodenum	0
Gall bladder	0
lleum	0
Kidney	0
Ovary	0
Pancreas	0
Paroud gland	0
Prostate	0
Skeletal muscle	0
Spleen	0
Testis	0

Fig. 6



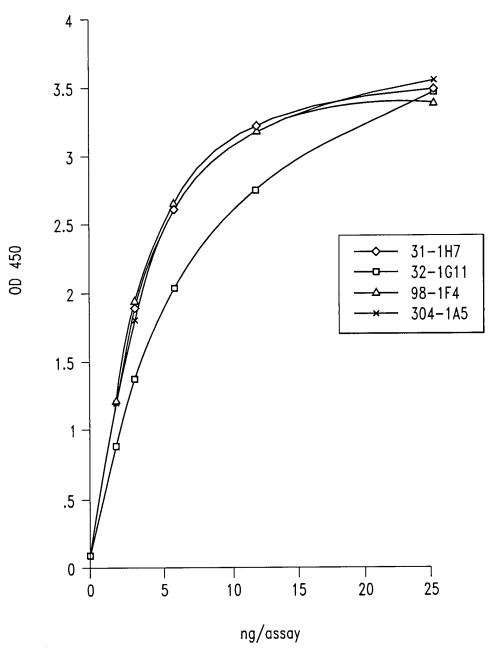


Fig. 7A

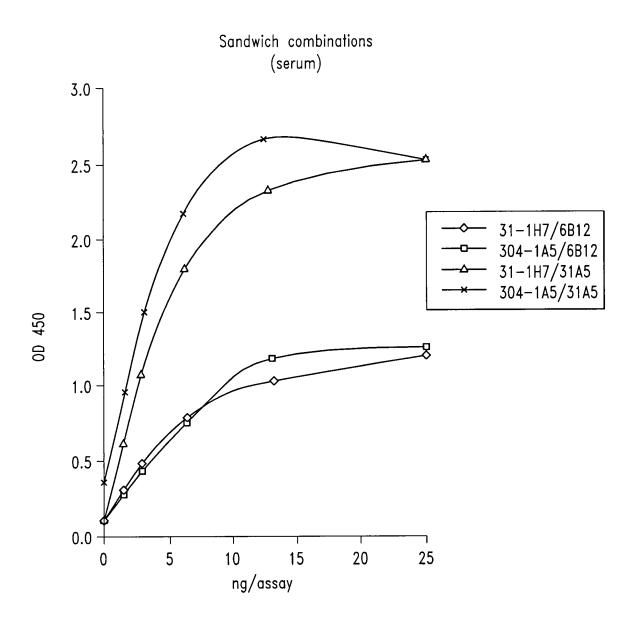
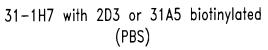


Fig. 7B



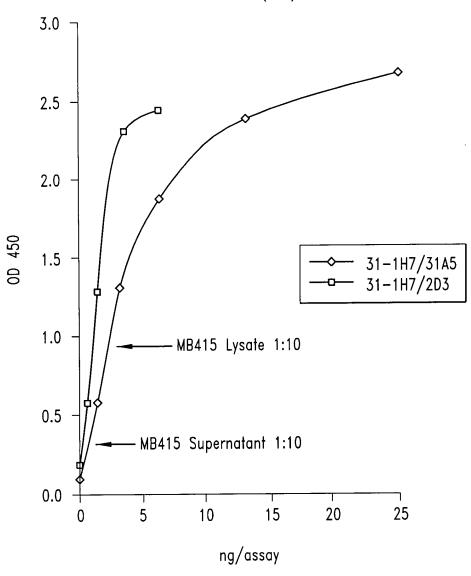


Fig. 7C

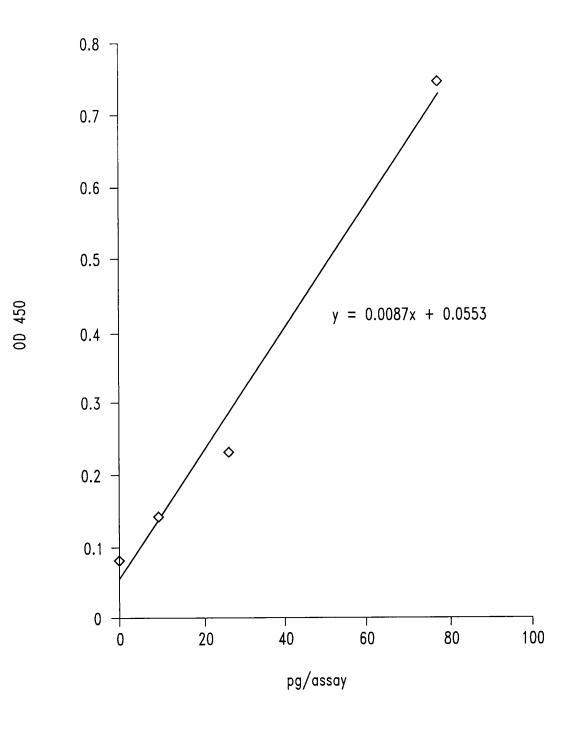


Fig. 8

Detection of mmamglobin in sera

Status Western Mammaglobin [pg/ml] 00 Mammaglobin [pg/ml]*** MRNA in blot test BrCA + 4980-9600 3.8 8732 not test BrCA nd 560-1245 2.6 2392 + + BrCA nd 311-622 1.7 1443 +<				Sandwich ELISA 2D3 mAb capture, 29C11 secondary	, é >	Sandwich ELISA 967 Ab capture, 2D3 mAb secondary	
+ 4980-9600 3.8 8732 not nd 560-1245 2.6 2392 not nd 311-622 1.7 1443 wea nd 311-622 1.5 2298 wea nd 149-311 0.6 847 wea nd 74-149 0.38 356 not nd 38-74 0.21 2333 not nd 38-74 0.19 284 not nd 38-74 0.19 284 not nd <38-74 0.19 284 not nd <38-74 0.19 284 not nd <38-74 0.18 188 not nd <38-74 0.18 188 not nd <38-74 0.18 18 not nd <38-74 0.16 43 not nd <33 0.14 149 not nd <17 0.05 18 not nd <17 0.01 443 not nd <17 0.01 443 not nd <18 0.01 443 not <th><u>ښ</u></th> <th></th> <th>lestern</th> <th>Mammaglobin [pg/ml]</th> <th>8</th> <th>Mammaglobin [pg/ml]**</th> <th>MRNA in blood*</th>	<u>ښ</u>		lestern	Mammaglobin [pg/ml]	8	Mammaglobin [pg/ml]**	MRNA in blood*
nd 560-1245 2.6 2392 nd 311-622 1.7 1443 nd 311-622 1.5 2298 wea nd 149-311 0.6 1498 wea nd 149-311 0.6 847 wea nd 74-149 0.38 356 not nd 38-74 0.21 2333 not nd 38-74 0.19 284 not nd 38-74 0.19 284 not nd 43 0.19 284 not nd <33 0.16 43 not nd <33 0.14 149 not nd <17 0.05 18 not nd <17 0.01 443 not nd <17 0.01 443 not nd <17 0.01 443 not nd <10.18 443		rCA	+	4980-9600	3.8	8732	not tested
nd 311-622 1.7 1443 nd 311-622 1.5 2298 wea nd 149-311 0.6 1498 wea nd 149-311 0.6 847 o.6 847 nd 74-149 0.38 356 not nd 38-74 0.21 233 not nd 38-74 0.19 284 not nd 38-74 0.19 284 not nd 38-74 0.19 284 not nd <33 0.16 43 not nd <33 0.14 149 not nd <17 0.05 18 not nd <17 0.01 443 not nd <18 not not nd <18 not not nd <18 not not nd <18 not not	α	rCA	pu	560-1245	5.6	2392	+
nd 311-622 1.5 2298 wea nd 149-311 0.6 847 1498 nd 74-149 0.38 356 not nd 38-74 0.21 2333 not nd 38-74 0.21 233 not nd 38-74 0.19 284 not nd 38-74 0.18 188 not nd <33	8	rCA	pu	311-622	1.7	1443	+
nd 149-311 0.6 1498 nd 149-311 0.6 847 nd 74-149 0.38 356 nd 38-74 0.21 2333 not nd 38-74 0.19 284 nd 38-74 0.19 284 nd 38-74 0.18 188 not nd <33	В	rCA	pu	311-622	1.5	2298	weakly +
nd 149-311 0.6 847 nd 74-149 0.38 356 nd 38-74 0.21 2333 not nd 38-74 0.19 284 not nd 38-74 0.19 284 not nd 38-74 0.18 188 not nd <33	8	rCA	pu	149-311	9.0	1498	+
nd 74-149 0.38 356 nd 38-74 0.21 233 not nd 38-74 0.2 636 not nd 38-74 0.19 284 not nd 38-74 0.18 188 not nd <33	Ω	rCA	pu	149-311	9.0	847	+
nd 38-74 0.21 2333 not nd 38-74 0.2 636 not nd 38-74 0.19 284 not nd 38-74 0.18 188 not nd <33	∞	rCA	pu	74-149	0.38	356	pu
nd 38-74 0.2 636 not nd 38-74 0.19 284 not nd 38-74 0.18 188 not nd <33	ģ	mal F	pu	38-74	0.21	2333	not tested
nd 38-74 0.19 284 nd 38-74 0.18 188 not nd <33 0.16 43 not nd <33 0.14 149 not nd <33 0.13 96 not nd <17 0.05 18 not nd <17 0.01 363 not nd <17 0.01 443 not nd <xxx< th=""> xxx 10.8 not</xxx<>	ģ	mal M	pu	38-74	0.2	636	not tested
nd 38-74 0.18 188 not nd <33	8	rCA	pu	38-74	0.19	284	pu
nd <33 0.16 43 not nd <33 0.14 149 not nd <33 0.13 96 not nd <17 0.05 18 not nd <17 0.01 363 not nd <17 0.01 443 not nd xxx xxx 10.8 not	9	mal F	pu	38-74	0.18	188	not tested
nd <33 0.14 149 not nd <33	9	mal F	pu	<33	0.16	43	not tested
nd <33 0.13 96 not nd <17	Š	mal F	pu	<33	0.14	149	not tested
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5	mal F	pq	<33	0.13	96	not tested
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	9	mal F	pu	<17	0.05	18	not tested
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	9	mal F	pu	<17	0.01	363	not tested
nd xxx xxx 10.8 not	Š	mal F	pu	<17	0.01	443	not tested
	Š	mal F	pu	XXX	XXX	10.8	not tested

Fig. 9

MKLLMVLMLAALSQHCYAGSGCPLLENVISKTINPQVSKTEYKELLQEFIDDNATTNAIDELKECFLNQTDETLSNVEVFMQLIYDSSLCDLF

MKLLMVLMLAALSQHCYAGSGCPLLENVISKTINPQVSKTEYKELLQEFIDDNATTNAIDELKECFLNQTDETLSNVEVFMQLIYDSSLCDLF

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MKLLMVLMLAALSQHCYAGSGCPLLENVISKTINPQVSKTEYKELLQEFIDDNATTNAIDELKECFLNQTDETLSNVEVFMQLIYDSSLCDLF

peptide #	AA sequence	AA location within mmgb
la	MKLLMVLMLAALSQHCYAGS	1-20
2a	ALSQHCYAGSGCPLLENVIS	11-30
3a	GCPLLENVISKTINPQVSKT	21-40
4a	KTINPQVSKTEYKELLQEFI	31-50
5a	EYKELLQEFIDDNATTNAID	41-60
6a	DDNATTNAIDELKECFLNQT	51-70
7a	ELKECFLNQTDETLSNVEVF	61-80
8a	DETLSNVEVFMQLIYDSSLCDLF	71-93

Fig. 10

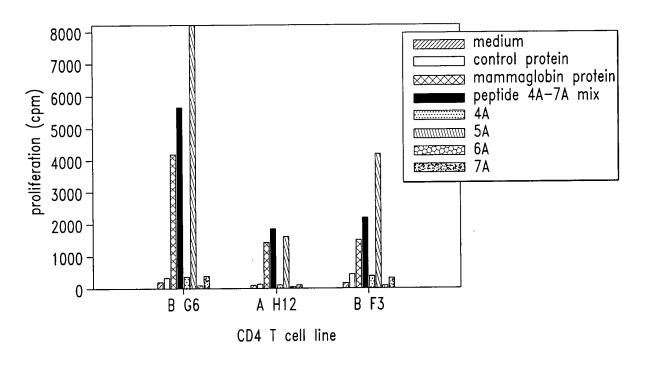


Fig. 11A

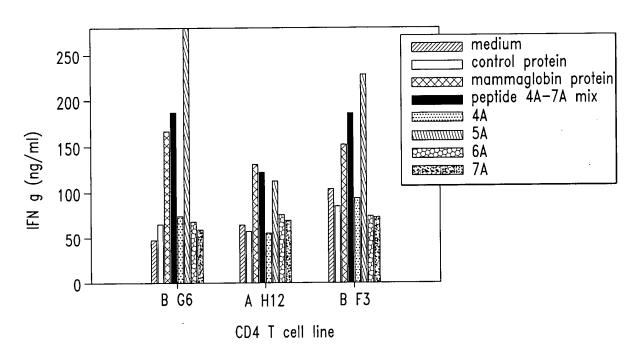
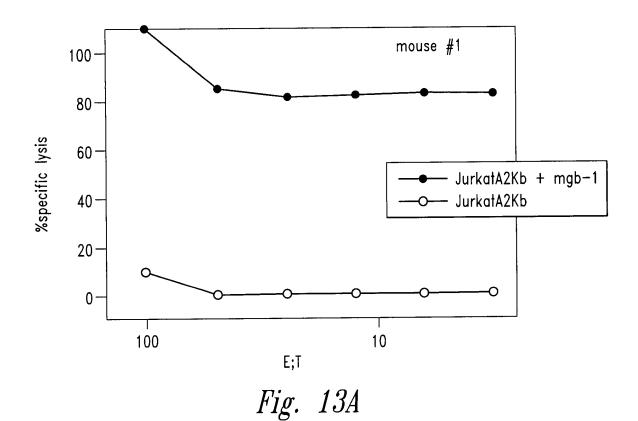


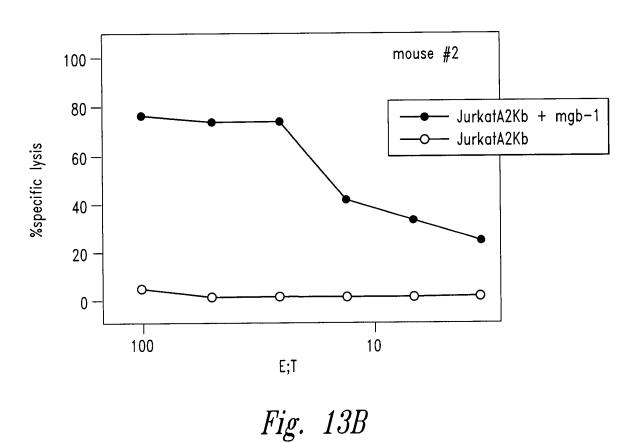
Fig. 11B

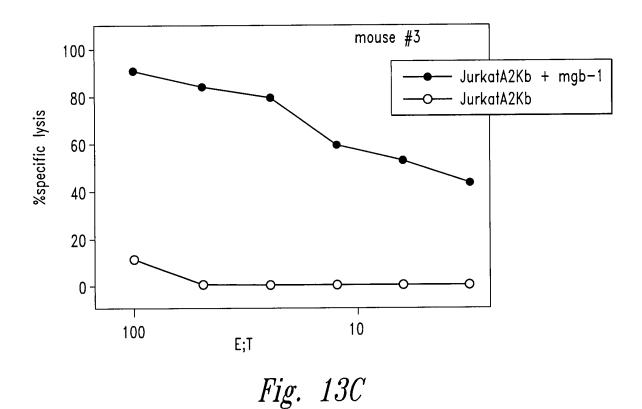
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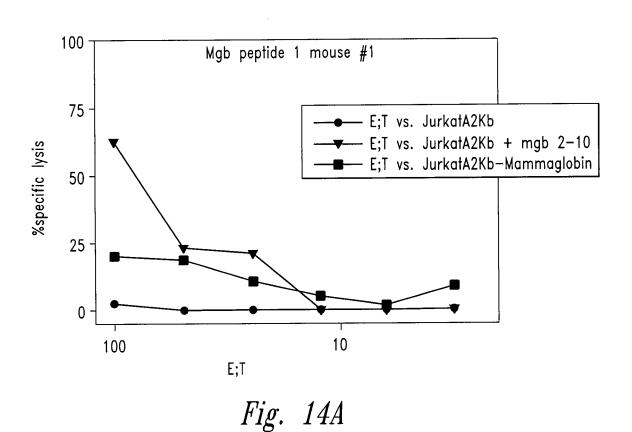
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2	3	LLMVLMLAA (9)	72
3	4	LMVLMLAAL (9)	60
4	66	FLNQTDETL (9)	48
6	83	LIYDsSLCDL (10)	151
7	2	KLLMvLMLAA (10)	148
8	80	FMQLiYDSSL (10)	71
9	58	AIDE1KECFL (10)	26
10	45	LLQEfIDDNA (10)	17

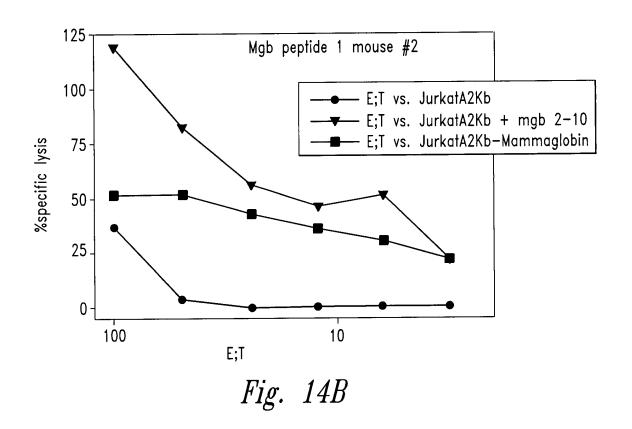
Fig. 12

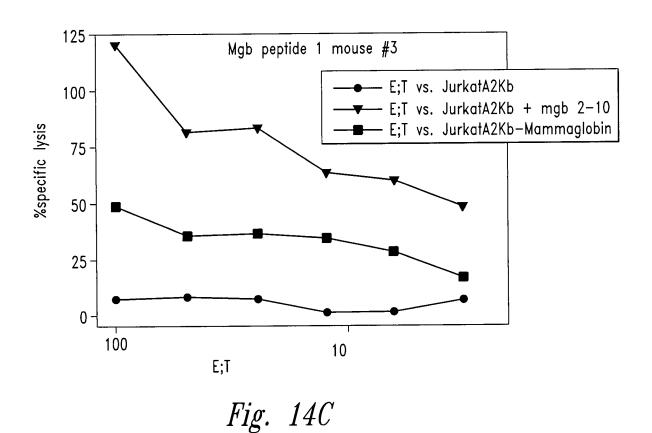


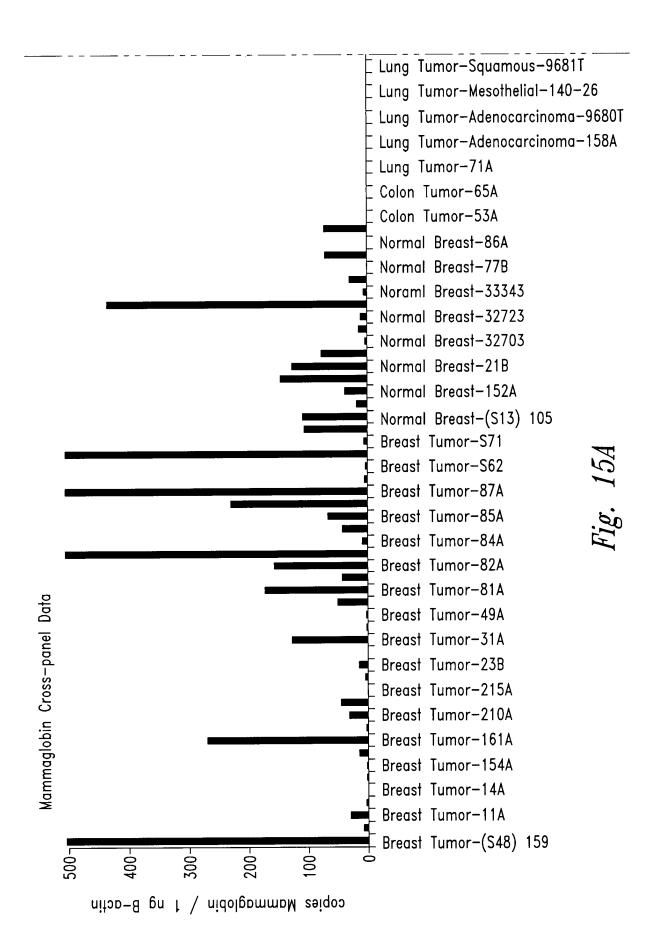












Normal Testes-4C Normal Stomach-73A Normal Stomach-137A Normal Stomach-137A Normal Small Intestine-66B Normal Skin-138A Normal Skin-60A Normal Skeletal Muscel-128A Normal Retina-32263 Normal Ovary-93B Normal Lung-Clontech Normal Lung-58A Normal Lung-51C Normal Liver-56A Normal Liver-136A Nomal Kidney-69A Normal Kidney-119A Normal Esophagus-1375 Normal Colon-50B Normal Brain-Clontech Normal Brain-75A Normal Bone Marrow-74A Normal Bladder-S9-1 Normal Aorta-1375 Normal Prostate-131A Normal Prostate-48B Normal Prostate-45A Normal Prostate-34C Normal Prostate-117A Prostate Tumor-40A Prostate Tumor-35A Prostate Tumor-135A Prostate Tumor-115A Ovary Tumor-120A Lung Tumor-Squamous-96A

MB415 cells versus copy number for Mammaglobin

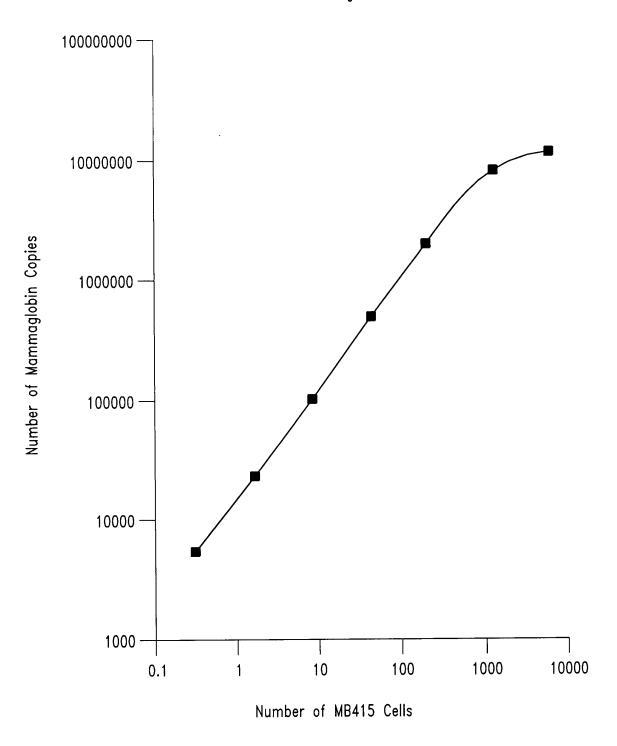
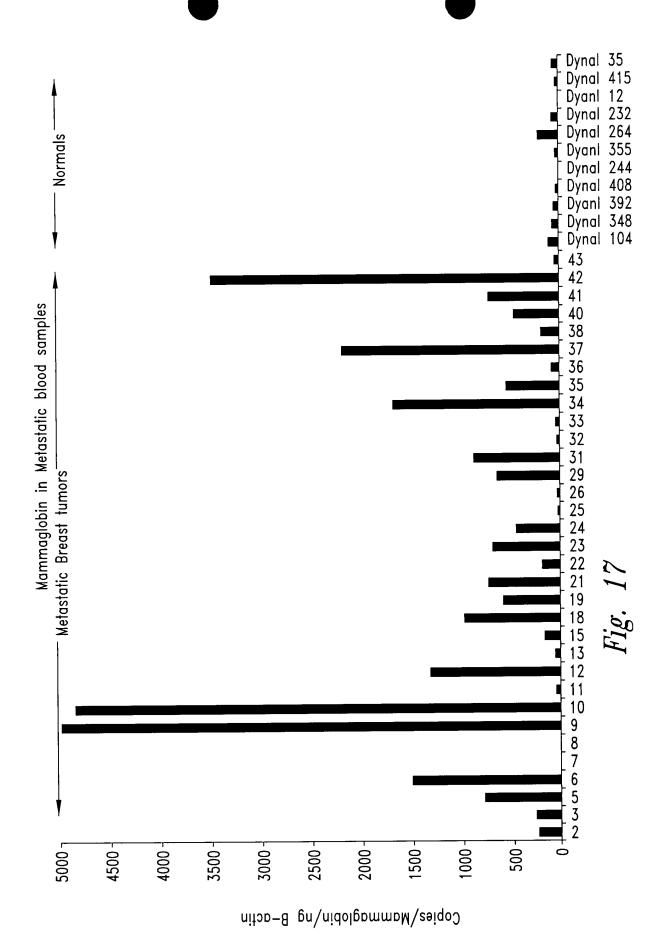


Fig. 16



line # Na	Ina # name priming Pet	media	DMSO	1A-7A	Y,	500	000	S28 528	\$989	1944	1222
3		551	243	5478	45	ARCZI	7 7	2 G	18027	14327	4599
ARCI	_		8	13737	- 23	06771	Š) rac	11457	8698	1890
AB-F7			551	7815	86.	126/6	5	ָבָל מָל מַל	4 50	6535	656
100	•	1309	1725	18113	965	5850	1204		2 6	4633	ğ
10.64	•		683	15648	4500	112	22045	- t	90.7	2 6	-
ָ בַּ			378	6839	396	428	4095	135	51.5	707	2 5
AB:A9				29n47	725	2828	5838	1177	617		
AB:68			1000	1001	3158	2836	11635	2954	925	1006	₹
AB:C9			200	F361	2004	3455	3829	492	5405	3744	225
AB:G7			288	****	1007	701.6	1752	689	5639	2586	228
AB:G9			1577	7563	1468	1000	956	9413	15009	5988	275
AB:HI2	112 1A-7A		2623	23408	24070			278	1157	1189	667
AEI-HA			8	16789	674		16/11		1000	4000	7
7		124	520	20866	21642	908	3045) 		Cad	-
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CD:A5			3	7.3	A.	68	38	40	<u>.</u>	<u>.</u>	
CD:C1			Şį		3 5	<u>†</u>	489	562	685	543	23
AB:G7			477	101	* C	1 5	S S S S S S S S S S S S S S S S S S S	380	775	1340	8
AB:H12			328	200	D 100	2	3 5	200	OPE	252	2
4B-C10				486	400	# !	ò	1	PURE	247.83	833
A D.C.1 S			164	22726	1 43	15534	9 :			25.48	187
				2408	1618	982	1496	177		24.2	Ç
0 C C				1669	162	26 82	83	2	5101	2 7 6 5	- 6
į.			720	21053	271	11029	157	220	10420	2108	ה ה
ABHZ				204	412	276	125	6	1891	1171	₹ ;
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AB:E9					F	7148	48	465	20516	12078	687
AB:G6				100	į	- CB	75.19	105	2647	698	S.
AB:H4				50161	000	200	408	946	20077	11118	6
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AB:D1				4205	200	100	13030	1587	11,289	4834	6
AB:H1			3882	18628	14527	100	01001	586	5281	2080	8
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¥.	0			17558		15480	200		9.684	2530	60
4D-C3				8374	7694	2462	323	000	- CE - CE	2036	Ç
Š				8278	1018	3753	2941	87 i	25.0	23.5	
<u></u>				14322	3891	19183	629	2	50 to	7	, F
3 8			-	10285	4280	1691	1314	687	1715	ē	
3				70012	78	24392	103	4	18:285	138/3	
පි				F604	197	8497	45	103	15:209	88 95	Ċ,
吕				\$ 1001 \$ 1001	2 0	32004	6	96	19394	15188	Ë
8	CD:G3 1A-7A			90692	0 1	20077	3.6	8	6922	3365	8
5	CD-68 1A-7A			12775	CE	4.00°	9	2 7 0 0	27.0	2296	<u>6</u>
3 6		2293	2507	8908	3372	2634	7670	200		22874	7.
3 6	,			29772	308	23,832	438	474	9707		\$
-								ř			

FIGURE 19

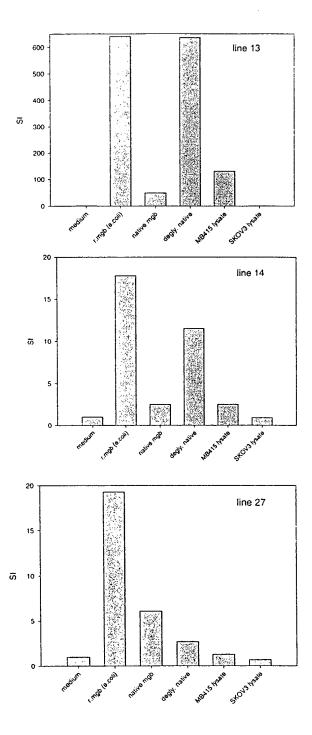


Fig. 20

H₃N- Met His tag 6aa Ra12 (short) 30aa HindIII 2aa Human mammaglobin (full length) 93aa -C00

Ra12(s)MammFL pCRX1 Expression Screen

